

US Army Corps of Engineers

USACE 101

LTG Robert L. Van Antwerp

Chief of Engineers, Commanding General

US Army Corps of Engineers

30 SEP 2010



US Army Corps of Engineers
BUILDING STRONG®



Chief of Engineers: Three Roles

Chief of Engineers



ARSTAF Engineer



Commander, USACE



USACE Overview

- USACE is an Army organization that provides value for the Nation in many ways to diverse stakeholders.
- Across the globe, we deliver positive impacts for today and tomorrow - in construction, natural resource management, energy and sustainability and capacity building, and more.
- We have the “right” people: world-class professionals, civilians, and soldiers alike.
- We are Army “ambassadors” on a daily basis to political leaders, America’s small businesses, and to citizens wherever we serve them.



USACE Program Areas

HQ

FY10 Military Program

\$ 24.8 B

11,100 personnel

Military Construction

Contingency Operations

Installation Support

**International and
Interagency Support**

**Engineer
Commands**

9 Divisions

(Direct Funded)

45 Districts

(Project Funded)

Homeland Security

Environmental

Real Estate

**Private
Industry
Partners**

FY10 Civil Works Program

\$ 7.9 B

22,600 personnel

Navigation

Hydropower

Flood Damage Reduction

Shore Protection

Water Supply

Regulatory

Recreation

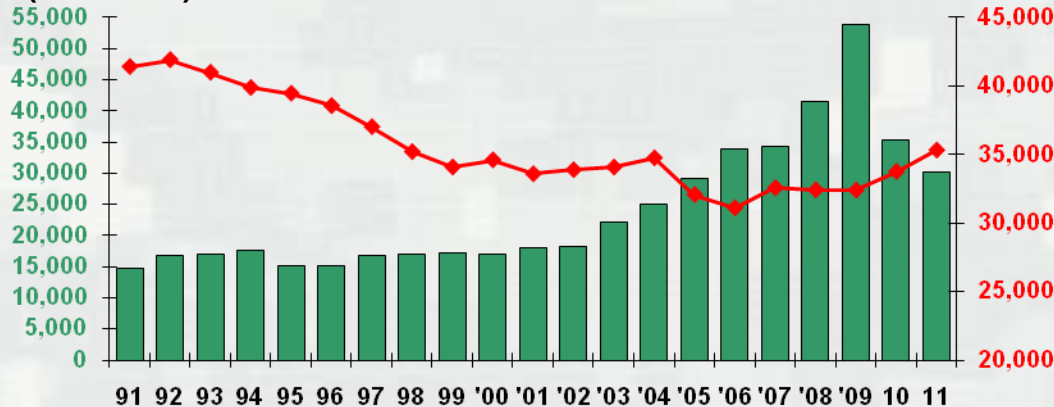
U.S. Army Geospatial Center
\$400 M

Engineer Research and Development Center
\$1.5 B



USACE Program & Employment Trends FY91-FY11

Program (Budget Authority) *
(\$ Millions) **

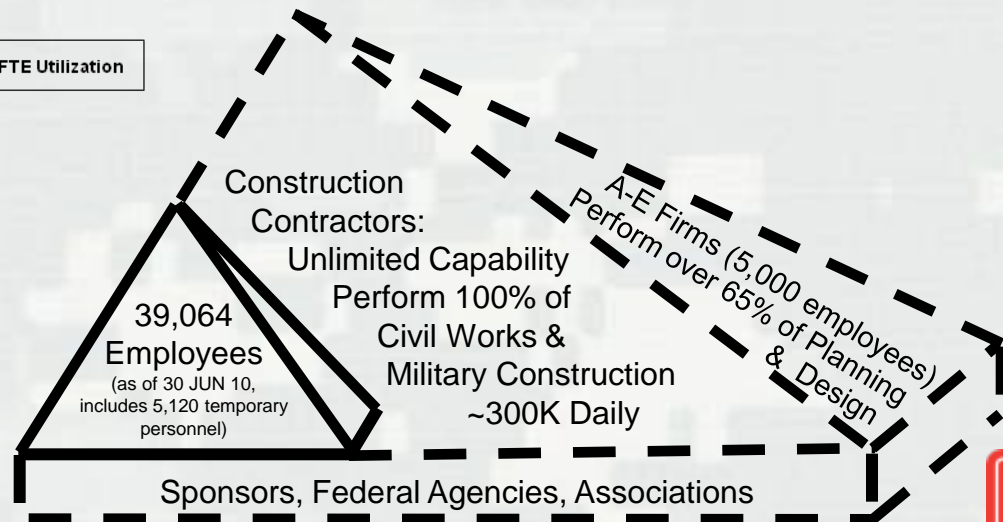


USACE FTEs ***

* Includes Military, Civil, and International and Interagency Support
 ** FY10 Constant Dollars
 *** FY91-09 FTE Utilization;
 FY10-11 Projected FTE Utilization

Program Dollars FTE Utilization

**Leverage Personnel Resources
through partnering/contracting
with Private Sector**



*as of 30-JUN-10, includes temporary employees



USACE Organizational Structure

Headquarters USACE

Humphreys Engineer Center Support Activity (FOA)

Engineer Commands (ENCOMs, 2)

Great Lakes & Ohio River Division

Mississippi Valley Division

North Atlantic Division*

Northwestern Division

Pacific Ocean Division

South Atlantic Division

South Pacific Division

Southwestern Division

Buffalo

Chicago

Detroit

Huntington

Louisville

Nashville

Pittsburgh

Vicksburg

Memphis

New Orleans

St Paul

Rock Island

St Louis

Baltimore

New England

New York

Norfolk

Philadelphia

Europe

Kansas City

Omaha

Portland

Seattle

Walla Walla

Alaska

Far East

Honolulu

Japan

Charleston

Jacksonville

Mobile

Savannah

Wilmington

Albuquerque

Sacramento

Los Angeles

San Francisco

Fort Worth

Galveston

Little Rock

Tulsa

Transatlantic Division*

Middle East - Winchester, VA

Gulf Region - Iraq

Afghanistan North

Afghanistan South

USACE Logistics Agency (FOA)

USACE Finance Center (FOA)

Institute for Water Resources (FOA)

Marine Design Center (FOA)

249th Prime Power Battalion

Engineering and Support Center, Hunstville

Engineer Research and Development Center (7 Labs)

Army Geospatial Center

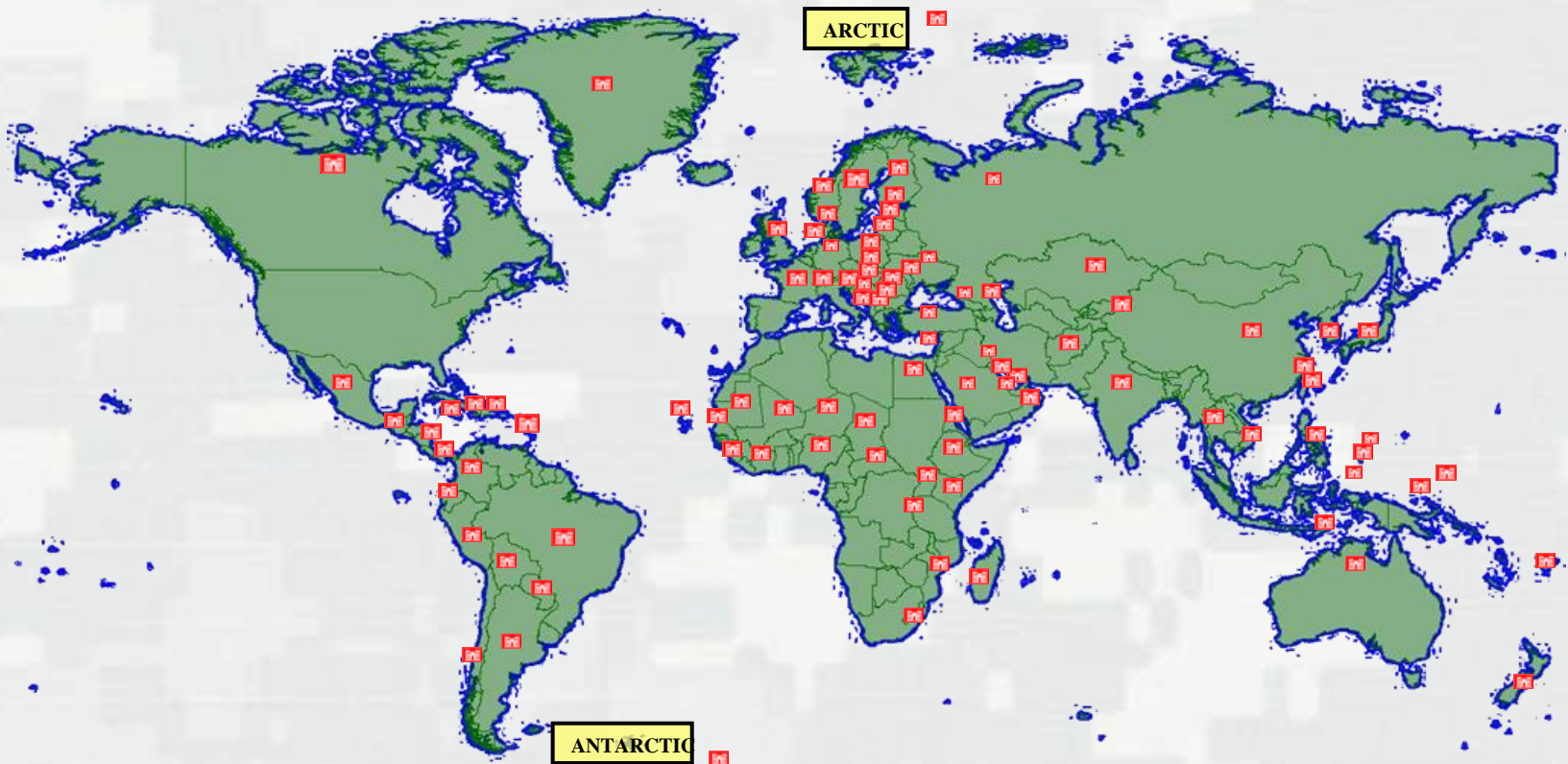
* Alignment with a Combatant Command

9

Organization with a Military Mission

USACE Global Engagement

- Engagement: 100+ countries
- Physical Presence: 34 countries



USACE Military Programs Missions

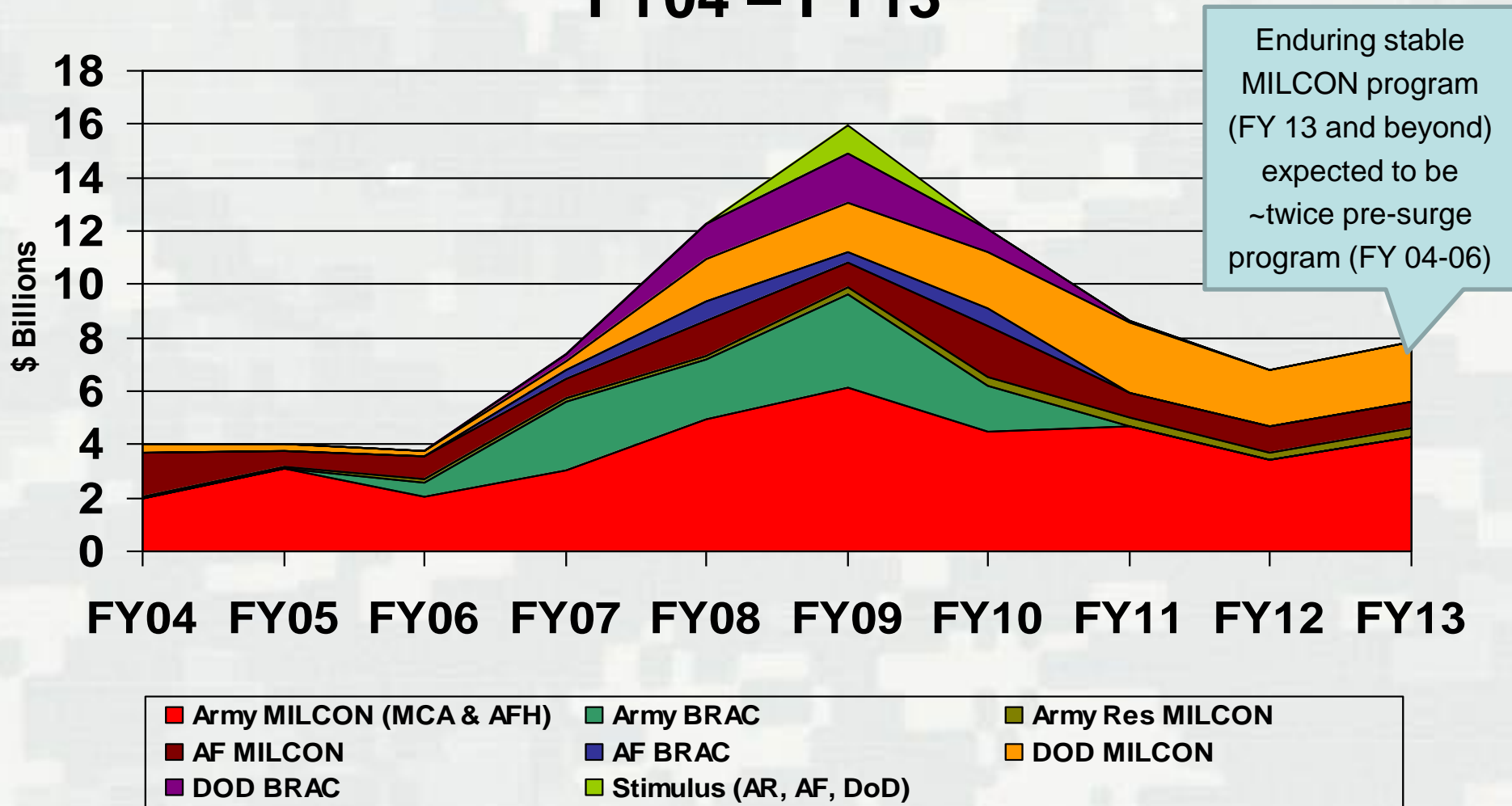


- Military Construction (MILCON)
- Base Realignment and Closure (BRAC)
- Overseas Contingency Operations (OCO)
- Installation Support
- Environmental/Formerly Used Defense Sites (FUDS)
- Interagency & International Services (IIS)
- Real Estate
- American Restoration and Recovery Act (ARRA)

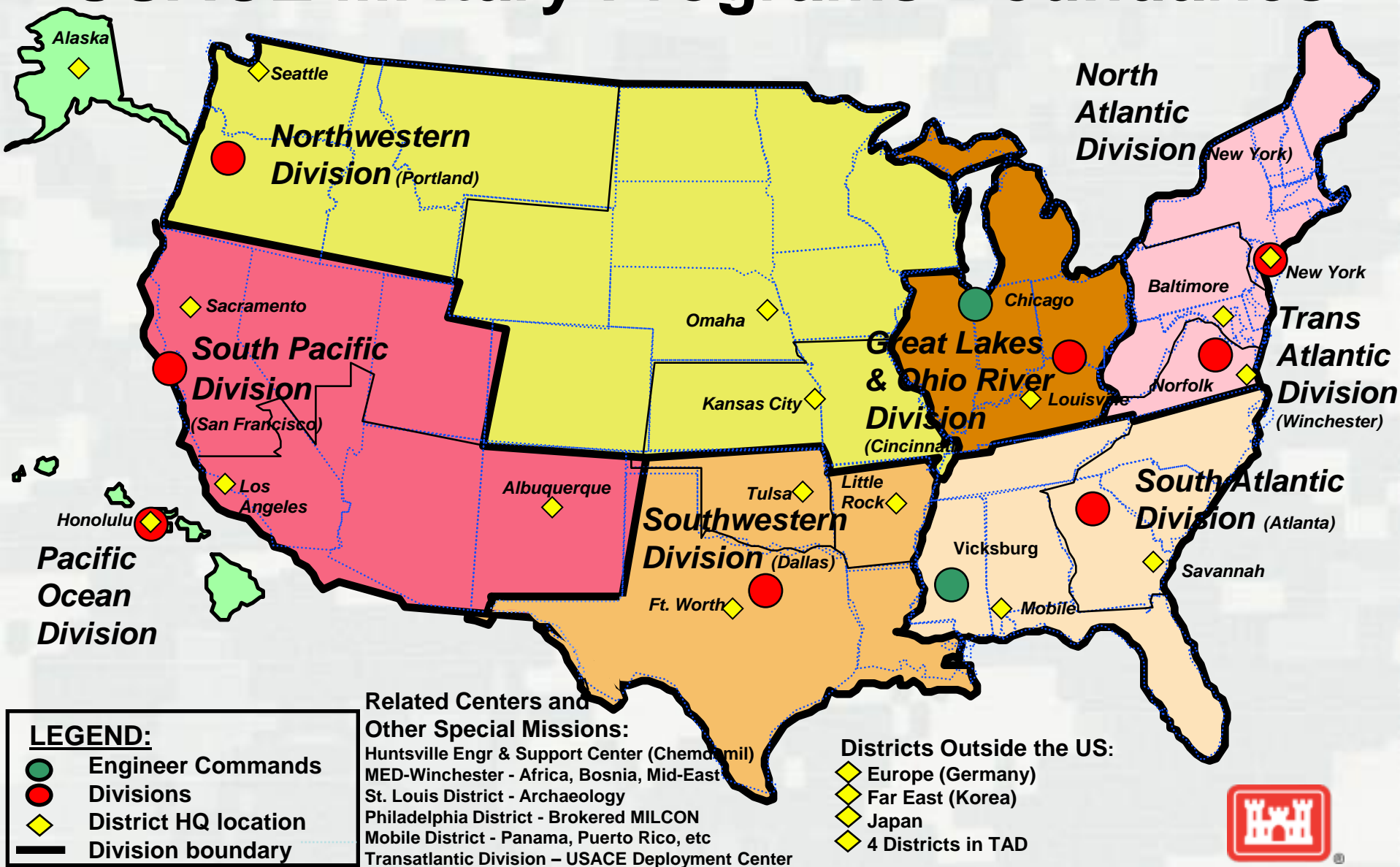


USACE MILCON/BRAC Requirements, \$84.7B

FY04 – FY13



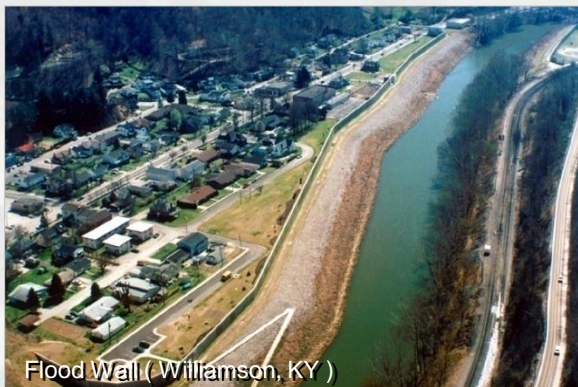
USACE Military Programs Boundaries



USACE Civil Works Program



Lock and Dam 15 (Mississippi River)



Flood Wall (Williamson, KY)



Everglades

Deliver enduring, comprehensive, sustainable, and integrated solutions to the Nation's water resources and related challenges through collaboration with our stakeholders: Regions, States, localities, Tribes, and other Federal agencies.

- Flood Risk Management, \$1.865B* (34%)
- Navigation, \$1.746B* (32%)
- Ecosystem Restoration & Infrastructure, \$940M* (18%)
- Recreation & Natural Resource Management, \$284M* (5%)
- Hydropower, \$211M* (4%)
- Regulatory Program: Wetlands & Waterways, \$190M* (3%)
- Disaster Preparedness & Response, \$14M* (<1%)
- Water Supply , \$5M* (<1%)

* FY10 Appropriation



Dredge ESSAYONS (Coos Bay, OR)

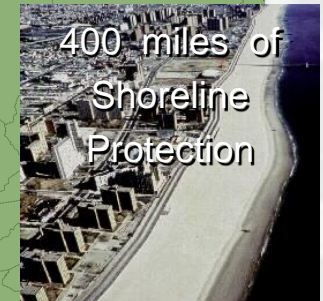
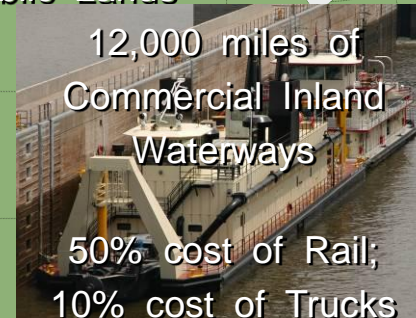


Lake Seminole (Mobile District)



Bonneville II Powerhouse (Washington)

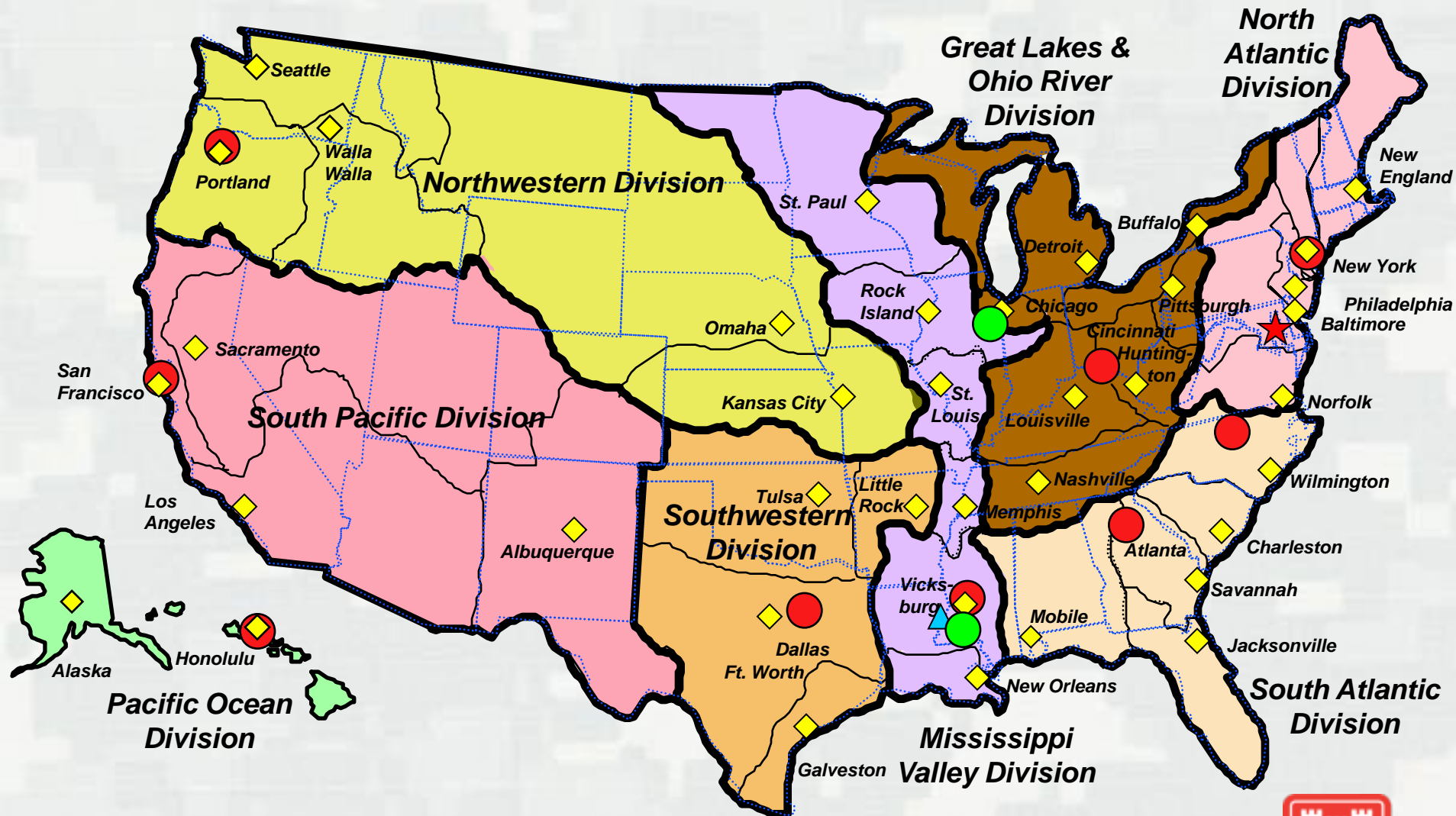
USACE Civil Works Value to the Nation



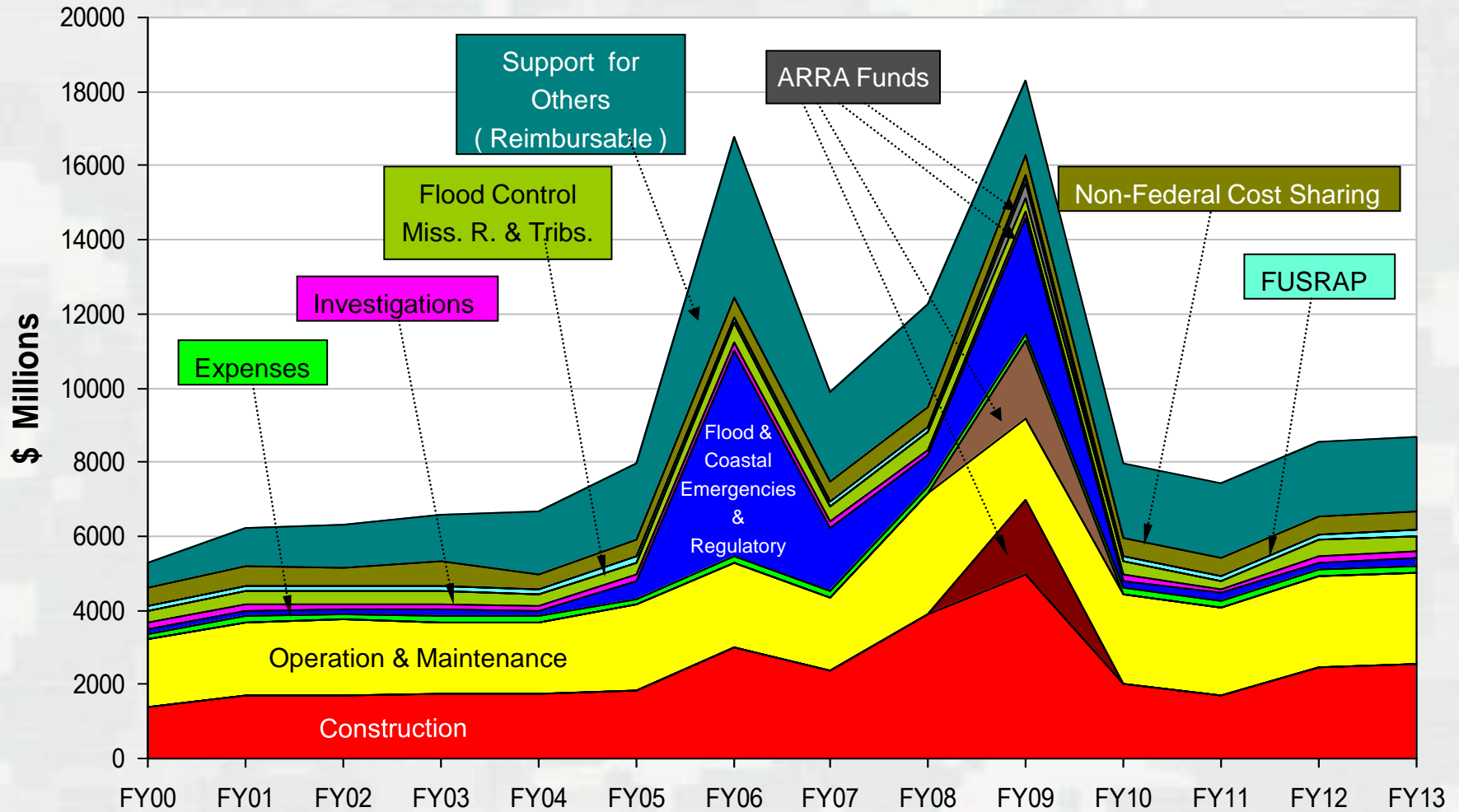
- US Ports and Waterways convey >2B Tons of Commerce
- Foreign Trade alone creates >\$160 B in Tax Revenues



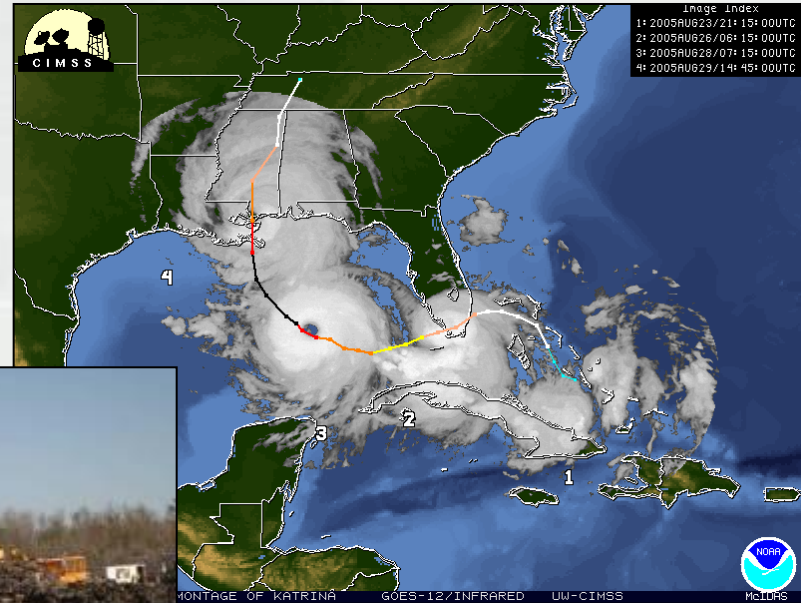
USACE Civil Works Boundaries



USACE CW Program Trends & Outlook



USACE Disaster Preparedness & Response

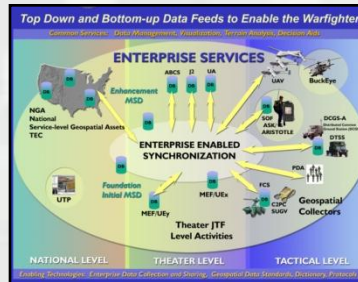
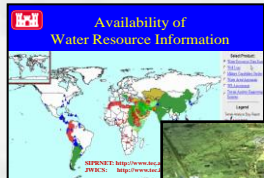


- Support FEMA: Emergency Support Function (ESF) #3 Public Works & Engineering
- Support the Department of Defense
- Accomplish USACE missions



U.S. Army Geospatial Center

Mission: To coordinate, integrate, and synchronize geospatial information requirements and standards across the Army; develop and field geospatial enterprise-enabled systems and capabilities across the Army and the Dept of Defense; and to provide direct geospatial support and products to the Warfighter.



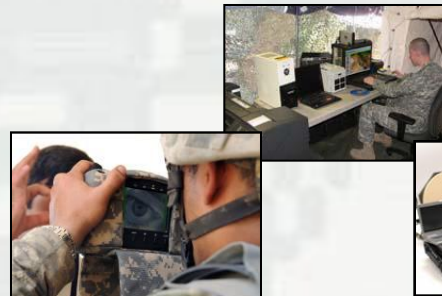
Warfighter Support and Production

Enterprise Development

Research and Technology Development



Tactical Source and Enterprise Solutions



Systems Acquisition and Program Mgmt



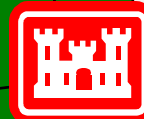
USACE Engineer Research & Development Center

- * 2500 Employees (1800 Full Time Federal)
- * 991 Scientists & Engineers
- * \$1.2 Billion in Unique Research Facilities & Equipment
- * \$1.5 Billion Annual Program
- * 77 Active Patents



Cold Regions Research and Engineering Laboratory

Hanover, NH



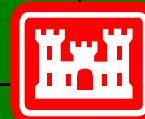
Construction Engineering Research Laboratory

Champaign, IL



ERDC Topographic Engineering Center

Alexandria, VA



ERDC Headquarters
Coastal and Hydraulics Laboratory
Environmental Laboratory
Geotechnical and Structures Laboratory
Information Technology Laboratory

Vicksburg, MS



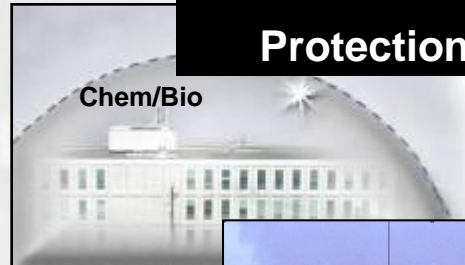
USACE ERDC

Support to the Army and the Nation, Leveraging Technical Engineer Capabilities with R&D



Rapid Airfield Construction

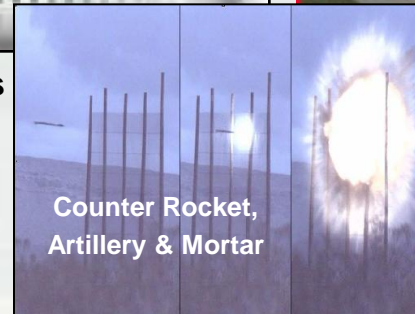
Enable Theater Access



Immune Buildings

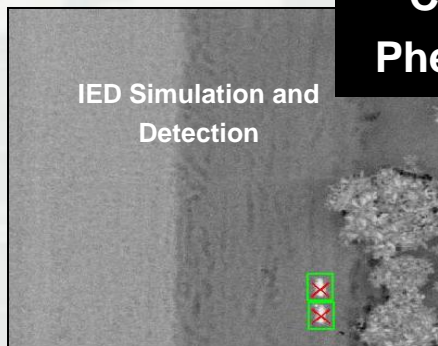
Force Protection

Structural Retrofit

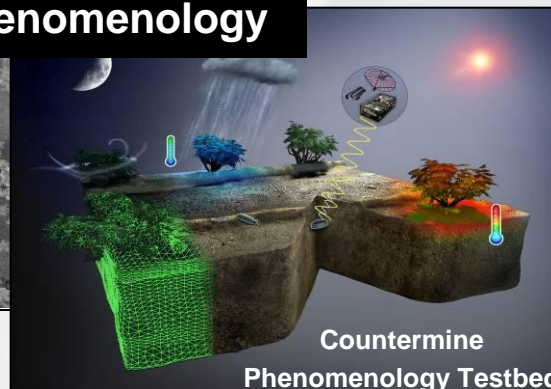


Counter Rocket, Artillery & Mortar

Countermine Phenomenology



IED Simulation and Detection



Countermine Phenomenology Testbed



USACE Take-Aways

We Support the Nation:

- Globally, where we are structured to deliver across the world
- Expertly, through our world-class civilians and soldiers
- Rapidly, for disasters and new challenges, with in-house and contractor forces that can be sized and mobilized to meet the demand



BUILDING STRONG®